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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,738	07/11/2006	John G. Howard	MCCAIN-LTD 3.3-005	7052
530	7590	01/28/2010	EXAMINER	
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090				KING, FELICIA C
ART UNIT		PAPER NUMBER		
1794				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/549,738	HOWARD ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	FELICIA C. KING	1794	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 21 October 2009.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-17 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ .  | 6) <input type="checkbox"/> Other: _____ .                        |

## **DETAILED ACTION**

### ***Response to Amendment***

This Office Action is written in response to Applicant's Remarks dated 10/21/09.

Applicant has cancelled claims 20 and 22 in response to the Office Action dated 5/29/09. Claims 1-17 are pending.

### ***Claim Rejections - 35 USC § 103***

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. **Claims 1-4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins et al. (US 5,976,607) in view of Badertscher (US 5891,494) and further in view of Bednar et al. (US 5,242,699).**

**Regarding Claim 1:** Higgins discloses a method of preparing a potato based food product [col.7, lines 63-64], the method comprising the steps of processing potatoes into potato articles having a desired size and shape [col. 7, lines 63-65], blanching said potato articles [col. 7, line 66], dipping said blanched potato articles in a solution to prevent non-enzymic oxidation of the potato articles [col. 7, line 67; col. 8, lines 1-2], drying said potato articles [col. 7, line 4], coating said potato articles in an emulsion containing starch, oil, salt and coloring in the form of paprika [col.6, lines 42-60] but does not disclose introducing coated articles into a hot air environment; and removing articles from hot air environment. However, Badertscher discloses preparing a potato based food product where the potato is cut, blanched and subsequently coated with a starch, oil and salt

emulsion [claims 1, 15, 16]; where the coated product is toasted in an air oven and cooled (removed from hot air environment) [col. 2, lines 41-44; claims 3, 9]. Additionally, Bednar discloses a potato product coated with hydrocolloid solution (starch solution) and drying it either at room temperature or by the application of heat [col.4, lines 30-44].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins, Badertscher and Bednar before him or her to modify the method of Higgins to include a drying step as disclosed in Badertscher because the drying step after coating the potato article will effectuate a desirable moisture loss [Bednar col. 4, lines 33-35, col. 43-49], since the potato article in Higgins is contacted with an aqueous starch solution the coating would be watery and potentially make the potato article soggy without further hot air exposure and it would be undesirable to present a soggy potato article to the consumer. Further, exposing the coated potato product to a hot air environment would allow setting and stabilization of the solution onto the potato strip thereby minimizing or preventing separation of the coating from the potato during subsequent processing steps [Bednar, col.4, lines 39-42]. The references are combinable because they all relate to processing blanched potato products, incorporating a coating step with a starch containing solution. Although, Higgins discloses partially frying the potato product after coating, this is done in order to preserve the food product where it is then frozen for subsequent reheating, given today's consumer preference for low fat food it would have been obvious to substitute the partial frying method in Higgins for the air drying in Badertscher because it would effectuate desirable moisture loss. Further, Bednar has been disclosed for its disclosure that air drying to effectuate moisture loss and to set a starch containing coating solution is well known in the art.

**Regarding Claim 2:** Higgins discloses the step of blanching where the articles are blanched in 170°F (76°C) water for about 7 minutes [col. 7, lines 66-67].

**Regarding Claim 3:** Higgins discloses placing blanched potatoes in a solution containing Sodium Acid Pyrophosphate (“SAPP”) [col. 8, lines 1-2] which prevents non-enzymic oxidation of the potato articles.

**Regarding Claim 4:** Higgins discloses .5%-2% Sodium Acid Pyrophosphate [col. 7, lines 11-12].

**Regarding Claim 6:** Higgins discloses drying blanched and dipped potatoes that are oven dried at 180 -190°F [col. 8, lines 3-4].

3. **Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins et al. (US 5,976,607) in view of Badertscher (US 5891,494), and Bednar et al. (US 5,242,699), as applied to claims 1 and 3 above and further in view of Baisier et al. (US 5,279,840).**

**Regarding Claim 5:** Higgins discloses Sodium Acid Pyrophosphate solution at a temperature of 130°F (54°C) for 30 seconds [col. 8, lines 1-2] but does not disclose Sodium Acid Pyrophosphate solution at a temperature 65°C for around 60 sec. However, Baisier discloses a potato strip that is immersed in Sodium Acid Pyrophosphate solution at a temperature of 130°F-170°F (54°C-76°C) for about 1 minute (60 sec.) [col. 5, lines 42-44].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins, Badertscher, Bednar and Baisier before him or her to modify the dipping step of Higgins to include the temperature and time of Baisier because it is common practice in the art to dip blanched strips of SAPP solution for as long as five minutes [col. 1, lines 52-53] and to perform the step at a range of 130°F-170°F [col. 5, lines 43-44]. Baisier suggests that the sugar content of potatoes is a determining factor in whether a SAPP step is needed [col. 1, lines 58-61] which may suggest that the time and temperature of exposure to SAPP depends on the type

of potato utilized. Thus it would have been obvious to combine Baisier with Higgins to perform the SAPP as specified in the claims.

Although Baisier does not disclose the exact temperature at which to hold the SAPP solution, one having ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the compositional proportions taught by Baisier overlap the instantly claimed proportions and therefore are considered to establish a prima facie case of obviousness. *In re Malagari* 182 USPQ 549,553.

**4. Claims 7, 16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins et al. (US 5,976,607), Badertscher (US 5891,494), and Bednar et al. (US 5,242,699), as applied to claim 1 and in further view of Collinge et al. (US 6,132,785).**

**Regarding Claim 7:** Higgins discloses drying blanched and dipped potatoes that are oven dried at 180 -190°F [col. 8, lines 3-4] but does not explicitly disclose where after dipping the blanched potatoes the drying step is performed at ambient temperature. However, Collinge discloses where after dipping the blanched potato articles, they are dried at ambient temperature [col. 4, lines 10-17].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins, Badertscher, Bednar, and Collinge before him or her to modify the post dipping drying steps of Higgins for the drying step at ambient temperature because although the time at this step would probably increase in order to attain the desired moisture content of the potato using the lower ambient temperature would advantageously allow for greater control over the drying step thereby mitigating the possibility of over drying of the potato in this initial drying step.

**Regarding Claims 16 and 17:** Higgins discloses a method of treating a potato product but does not disclose introducing coated articles to an impingement oven temperature range or the hot air environment at a temperature of between 240 °C to 285 °C. However, Collinge discloses an impingement oven where the hot air environment is 350°F -450°F (177°C -232°C) [col. 5, lines 50-56].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins, Badertscher, Bednar, and Collinge before him or her to modify Higgins and Badertscher to state a desired temperature range as in Collinge because potato articles exposed to heat around these temperatures have a comparable finish to potato articles that are fried [Collinge col. 5, lines 55-58].

Further, it would have been obvious to one having ordinary skill in the art at the time of the invention to adjust the temperature for the intended application since the size or thickness of the potato product has a considerable impact on the exposure to heat on the potato product varies based upon the size or thickness of the potato product and time fro exposure , since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

*In re Boesch*, 617 F.2d 272.

5. **Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins et al. (US 5,976,607) Badertscher (US 5891,494), and Bednar et al. (US 5,242,699) as applied to claim 1 above and in further in view of Anderson et al. (US 5,139,800) as evidenced by Francis, Encyclopedia of Food Science and Technology Second Edition Vol. 1 2000. pg 611.**

**Regarding Claim 8:** Higgins discloses a coating containing water [col. 6, lines 61-64], oil [col. 6, lines 52-54], starch [col. 5, lines 42- 58], tint (coloring) [col. 6, line 57-58] stabilizer [col. 6, lines 4-12], salt [col. 6, line 59] but does not explicitly disclose an emulsifier. However, Anderson discloses emulsifiers [col.3, lines 47-52].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins, Badertscher, Bednar, and Anderson before him or her to modify the coating compositions of Higgins to include the emulsifier of Anderson because emulsifiers are useful in food coated products [Anderson col. 5, lines 42-43], and it would contribute to a more uniform dispersion of coating along the potato product [Francis, pg 611]. Further, it would have been obvious to include an emulsifier in a coating system that contains water and a larger quantity of oil in order to emulsify the mixture and has little to do with the method of cooking the food product( e.g. frying versus baking) and more to do with creating a homogenous dispersion of the ingredients/seasonings used to create the coating.

Further examiner cites, *In re Levin* 84 USPQ 232, which takes the position that "new recipes or formulas for cooking food which involve the addition or elimination of common ingredients, or for treating them in ways which differ from the former practice, do not amount to invention merely because it is not disclosed that, in the constantly developing art of preparing no one else ever did the particular thing upon which the applicant asserts his right to patent. In all such cases, there is nothing patentable unless the applicant by a proper showing further establishes a coaction or cooperative relationship between the selected ingredients which produces a new, unexpected, and useful function."

**Regarding Claim 9:** Higgins discloses water at 20%-90% [col. 6, lines 61-64], vegetable oil .1%-1.0% [col. 6, lines 52-55], Starch 10%-80% [col.6, lines 48-50], stabilizer .05%- 4.5% [col. 7,

lines 8-9], salt 6.19% but does not explicitly disclose a percentage of Sunflower oil 24.00% - 28.00%, turmeric 0.01% - 0.10%, liquid paprika 0.01% - 0.10%, emulsifier 0.80% - 1.0%. However, Anderson discloses Sunflower Oil 10%-99% [col.5, lines 30-37], Turmeric .01%-0.10% [col. 5, lines 3-4], paprika 0.01%-.10% [col. 5, lines 25-27], emulsifier 0.5%-10% [col.5, lines 46-47].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins, Badertscher, Bednar, and Anderson before him or her to modify the coating compositions of Higgins to include the sunflower oil, turmeric, liquid paprika, and emulsifier of Anderson because they are ingredients commonly used in coating food products and aiding in coloring of food compositions that are cooked [col. 1, lines 33-35; col. 6, lines 14-19].

Further examiner cites, *In re Levin* 84 USPQ 232, which takes the position that "new recipes or formulas for cooking food which involve the addition or elimination of common ingredients, or for treating them in ways which differ from the former practice, do not amount to invention merely because it is not disclosed that, in the constantly developing art of preparing no one else ever did the particular thing upon which the applicant asserts his right to patent. In all such cases, there is nothing patentable unless the applicant by a proper showing further establishes a coaction or cooperative relationship between the selected ingredients which produces a new, unexpected, and useful function."

Further, although Higgins and Anderson do not recite the exact percentages as in the instant claim, it would have been obvious to one having ordinary skill in the art at the time of the invention to adjust the percentages of ingredients for the intended application, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272.

6. **Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins et al. (US 5,976,607) in view of Badertscher (US 5891,494), and Bednar et al. (US 5,242,699) as applied to claim 1 above and further in view of Higgins et al. (US 5,753,286).**

**Regarding Claim 10:** Higgins '607 discloses water [col. 6, lines 61-63], oil [col.6, lines 52-53], starch col. 6, lines 41-43], flour [col.5, lines 43-44], dextrin [col.6, lines 28-29], gum [col.6, lines 4-5], Sodium bicarbonate [col. 6, lines 20-25], salt [col.6, line 59], coloring [col. 6, line 57], oil [col.6 , lines 52-55], Sodium Acid Pyrophosphate [Col. 6, lines 13-15], but does not disclose dextrose. However, Higgins '286 discloses dextrose [col. 11, lines 2-3].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins '607, Badertscher, Bednar, and Higgins '286 before him or her to modify Higgins '607 to include the dextrose of Higgins '286 because dextrose is an effective coloring agent and is commonly used in batter to aid in the browning appearance of food products [col. 10, lines 66-67, col. 11, lines 1-4].

Further examiner cites, *In re Levin* 84 USPQ 232, which takes the position that "new recipes or formulas for cooking food which involve the addition or elimination of common ingredients, or for treating them in ways which differ from the former practice, do not amount to invention merely because it is not disclosed that, in the constantly developing art of preparing no one else ever did the particular thing upon which the applicant asserts his right to patent. In all such cases, there is nothing patentable unless the applicant by a proper showing further establishes a coaction or cooperative relationship between the selected ingredients which produces a new, unexpected, and useful function."

7. **Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins et al. (US 5,976,607), Badertscher (US 5891,494), Bednar et al. (US 5,242,699), and Higgins et al. (US 5,753,286) as applied to claim 10 above and further in view Anderson et al. (US 5,139,800).**

**Regarding Claim 11:** Higgins '607 discloses water at 20%-90% [col. 6, lines 61-64], Cornstarch 25% to 40% [col. 7, lines 20] (where the claim recites Maize starch), Modified Potato Starch 15-60% [col. 7, lines 22-23], Rice Flour 5-20% [col.7, line 6], Potato dextrin 0-15% [col. 6, line 29; col. 7, line 7], Xanthan gum .05%-4.5% [col.7, line 8], Sodium Bicarbonate .8% [col.8, line 20], Puron AG (SAPP 40) 0.5% [col.9, line26], vegetable oil .1%-1.0% [col. 6, lines 52-55] but does not disclose the percentage of Maize starch, dextrose, sunflower oil, turmeric, paprika oleoresin, and guar gum. Further, Higgins '286 discloses dextrose 1-20% [col.11, lines 2-3]. Further, Anderson discloses Sunflower Oil 10%-99% [col.5, lines 30-37], Turmeric .01%-0.10% [col. 5, lines 3-4], Paprika oleoresin 0.01%-.10% [col. 5, lines 25-27], guar gum .05%-.4% [col.3, lines 60-64].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins '607, Badertscher, Bednar, and Higgins '286 and Anderson before him or her to modify the composition in Higgins '607 to include the additions disclosed in Higgins '286, and Anderson because the dextrose in Higgins contributes to the browning capabilities of the coating composition [col. col. 10, lines 66-67, col. 11, lines 1-4], because in Anderson the sunflower oil may be used interchangeably with many other oils and is effective in its disclosed amounts [col. 3, lines 36-43] , turmeric and paprika are natural colorants and help achieve the desired color in the food coating [col. 5, lines 1-6] and guar gum which is another stabilizer which can be used in combination with the xanthan gum of Higgins '607 would make the composition more viscous [col. 5, lines 5—56].

Although, the named Higgins '607, Higgins '286, and Anderson and the instant claims differ in that they do not teach the exact same proportions as the recited in the instant claims, one having ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the compositional proportions taught by Higgins '607, Higgins '286 and Anderson overlap the instantly claimed proportions and therefore are considered to establish a *prima facie* case of obviousness. It would have been obvious to one having ordinary skill in the art to select any portion of the disclosed ranges including the instantly claimed ranges from the ranges disclosed in the prior art reference, particularly in view of the fact that; "The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages", *In re Peterson* 65 USPQ 2d 1379.

Further, it would have been obvious to one having ordinary skill in the art at the time of the invention to adjust the percentages for the intended application, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272.

Further, examiner cites *In re Levin* 84 USPQ 232, which takes the position that "new recipes or formulas for cooking food which involve the addition or elimination of common ingredients, or for treating them in ways which differ from the former practice, do not amount to invention merely because it is not disclosed that, in the constantly developing art of preparing no one else ever did the particular thing upon which the applicant asserts his right to patent. In all such cases, there is nothing patentable unless the applicant by a proper showing further establishes a coaction or cooperative relationship between the selected ingredients which produces a new, unexpected, and useful function."

8. **Claims 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higgins et al. (US 5,976,607), Badertscher (US 5891,494), and Bednar et al. (US 5,242,699) as applied to claim 1 and in further view of Judkins (US 5,885,639).**

**Regarding Claims 12:** Higgins discloses as method for treating potato articles but does not disclose where the coated article is further dried before subjecting to hot air environment. However, Judkins discloses drying a starch coated potato product with an air knife for the removal of excess starch slurry.

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins, Badertscher, Bednar, and Judkins before him or her to modify the post coating process in Higgins to include drying the potato article before further subjecting to hot air, as disclosed in Badertscher and Bednar, in order to further remove excess starch solution contained on the potato products.

**Regarding Claims 13, 14, 15:** Higgins discloses as method for treating potato articles but does not disclose introducing the coated article to a warm air environment; drying at temperatures between 100°C and 130°C; 105°C and 120°C respectively. Judkins discloses air drying after dipping as discussed above. Badertscher discloses drying at 155°C to 180°C. Additionally, Bednar discloses a potato product coated with hydrocolloid (starch solution) and drying it either at room temperature or by the application of heat [col.4, lines 30-44].

At the time of the invention, it would have been obvious to one of ordinary skill in the art having the teachings of Higgins Badertscher, Bednar, and Judkins before him or her to modify Higgins to incorporate the drying temperatures in Badertscher or Bednar because these temperatures are sufficient for adequate setting of the coating solution and moisture removal.

Although Badertscher and Bednar do not recite the same temperature ranges as in the instant claims, since drying temperature is a variable that can be modified by adjusting the amount of time the product is held at this temperature and by the size or thickness of the product being held at this temperature, with drying temperature decreasing as time increases and drying temperature increasing as time decreases. Further, it is known and expressed in Badertscher that where the thickness of the potato increases the effect of heat decreases [col. 2, lines 11-13]. Therefore, the precise temperatures would have been considered a result effective variable by one having ordinary skill in the art at the time of the invention was made. Accordingly, it would have been obvious to one having ordinary skill in the art at the time of the invention to adjust the air drying temperatures based on time and weight of the composition for the intended application, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

*In re Boesch*, 617 F.2d 272.

#### ***Response to Arguments***

1. Applicant's arguments, see pgs 6-11, filed 10/21/09, with respect to the rejection(s) of claims 1-17 under Higgins et al. (US 5,976,607) and secondary references Wiedersatz (US 5,858,431), Baisier et al. (US 5,279,840), Collinge et al. (US 6,132,785), Anderson et al. (US 5,139,800), Higgins et al. (US 5,753,286) have been fully considered and are persuasive in view of arguments made regarding the combinability of Higgins '607' and Wiedersatz. Therefore, the rejection has been withdrawn.
2. However, upon further consideration, a new grounds of rejection of 1-17 are made in view of Higgins et al. (US 5,976,607) and secondary references Badertscher (US 5891,494) and Bednar et

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al. (US 5,242,699), Baisier et al. (US 5,279,840), Collinge et al. (US 6,132,785), Anderson et al. (US 5,139,800), Higgins et al. (US 5,753,286), Judkins (US 5,885,639).

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FELICIA C. KING whose telephone number is (571)270-3733. The examiner can normally be reached on Mon- Thu 7:30 a.m.- 5:00 p.m.; Fri 7:30 a.m. - 4:00 p.m. alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Ruthkosky/  
Supervisory Patent Examiner, Art Unit 1794

/F. K./  
Examiner, Art Unit 1794